

WR-159 Twistable Flexible Waveguide in 12 Inch Using CMR Flange with a 4.9 to 7.05 GHz Frequency Range



FM-W159TF001-12

Features

- WR-159 waveguide
- Flexes in both the E and H plane
- 4.9 GHz to 7.05 GHz Frequency Range
- Brass flanges with a brass body
- Neoprene sleeve provides added protection and mechanical support

Applications

- Allows expansion/contraction due to thermal issues
- Test Benches
- Microwave Radio
- Eliminates installation problems caused by misalignment
- Provides vibration isolation

Description

The FM-W159TF001-12 is part of Fairview Microwave's family of flexible, twistable waveguides which operates in the 4.9 to 7.05 GHz range. The waveguide body is made of a helically wound silver coated brass strip. It can be twisted and/or bent in both the E and H planes without impairing VSWR or attenuation. The waveguide is covered by a neoprene jacket which protects the waveguide and provides mechanical support

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	4.9		7.05	GHz
VSWR		1.1:1		
Insertion Loss		0.1		dB
Input Power			2.5	kWatts

Electrical Specification Notes:
VSWR is per 2 foot.
Insertion Loss is dB per foot.

Mechanical Specifications

Waveguide Size	WR-159
Waveguide Design	Twistable
Section Length	12 in [304.8 mm]
E-Plane Minimum Bend Radius, One Time	5 in [127 mm]
H-Plane Minimum Bend Radius, One Time	10 in [254 mm]

Description	Flange 1	Waveguide	Flange 2
Type		WR-159	
Designation	CMR		CMR
Material	Brass	Brass	Brass

Temperature Operating Range	-50 to 100 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Notes, Plotted Data

Typical Performance Data

WR-159 Twistable Flexible Waveguide in 12 Inch Using CMR Flange with a 4.9 to 7.05 GHz Frequency Range from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-159 Twistable Flexible Waveguide in 12 Inch Using CMR Flange with a 4.9 to 7.05 GHz Frequency Range FM-W159TF001-12](#)

URL: <https://www.fairviewmicrowave.com/wr-159-twistable-flexible-waveguide-cmr-4.9-7.05-ghz-fm-w159tf001-12-p.aspx>

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FM-W159TF001-12 CAD Drawing

WR-159 Twistable Flexible Waveguide in 12 Inch Using CMR Flange with a 4.9 to 7.05 GHz Frequency Range

